

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
**WO 2004/113428 A1**

(51) International Patent Classification<sup>7</sup>: **C08J 9/02**,  
C09J 5/08, C08L 61/20 // B27N 1/02, B27K 9/00, D21J  
1/00, B29B 7/34

(21) International Application Number:  
PCT/DK2003/000432

(22) International Filing Date: 24 June 2003 (24.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **AGRO  
BIOMASS CONSULT ApS** [DK/DK]; Vestkystvej 261,  
DK-6710 Esbjerg V (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SCHOU, Lars**  
[DK/DK]; Vestkystvej 261, DK-6710 Esbjerg V (DK).

(74) Agent: **PATRADE A/S**; Fredens Torv 3A, DK-8000  
Aarhus C (DK).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR MIXING AND HOMOGENISATION OF BINDING AGENTS AND ADDITIVES

(57) Abstract: There is described a method for mixing and homogenisation of binding agents and additives in particular formulated for use the production of panels made from organic fibres and comprising the following method steps: dosing water-soluble UF/MUF resin of 90% by weight, dosing water-soluble hardener agent in the range of 5% by weight, dosing not water-soluble penetration agent in the range of 2-5% of weight, dosing not water-soluble foaming agent in the range of 2-5% of weight, continuous dosing these fluids into a collective tube leading to a common dynamic mixing and homogenisation unit and, operation said dynamic and homogenisation unit until a homogeneous and activated resin mixture is effected, so that said mixture having a structure like an emulsion containing wax penetration micro drops.

WO 2004/113428 A1